Naghed

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46

RAW SEQUENCE LISTING PATENT APPLICATION US/09/007,306

DATE: 06/09/98 TIME: 08:38:51

INPUT SET: S3103.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING
2	(1)	General Information
4 5		(i) APPLICANT: Hillman, Jennifer L.
6 7		(ii) TITLE OF THE INVENTION: A NOVEL GUANOSINE MONOPHOSPHATE REDUCTASE
8 9		(iii) NUMBER OF SEQUENCES: 4
10 11		(iv) CORRESPONDENCE ADDRESS:
12 13		(A) ADDRESSEE: Incyte Pharmaceuticals, Inc. (B) STREET: 3174 Porter Drive
14		(C) CITY: Palo Alto
15 16		(D) STATE: CA (E) COUNTRY: USA
17		(F) ZIP: 94304
18		() COMPUMED DEADARIE FORM
19 20		(v) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Diskette
21		(B) COMPUTER: IBM Compatible
22		(C) OPERATING SYSTEM: DOS
23		(D) SOFTWARE: FastSEO for Windows Version 2.0
24		(b) bottmin. Idbobig for mildonb verbion in
25		(vi) CURRENT APPLICATION DATA:
26		(A) APPLICATION NUMBER: 09/007,306
27		(B) FILING DATE:
28		(C) CLASSIFICATION:
29		
30		(vii) PRIOR APPLICATION DATA:
31		(A) APPLICATION NUMBER: 08/774,169
32		(B) FILING DATE:
33		
34		(viii) ATTORNEY/AGENT INFORMATION:
35		(A) NAME: Billings, Lucy J.
36		(B) REGISTRATION NUMBER: 36,749
37 38		(C) REFERENCE/DOCKET NUMBER: PF-0182 US
39		(ix) TELECOMMUNICATION INFORMATION:
40		(A) TELEPHONE: 415-855-0555
41		(B) TELEFAX: 415-845-4166
42		(C) TELEX:
43		
44		
45		(2) INFORMATION FOR SEQ ID NO:1:

RAW SEQUENCE LISTING PATENT APPLICATION US/09/007,306

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INPUT SET: S3103.raw

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(i) SEQUENCE CHARACTERISTICS:
47
48
              (A) LENGTH: 366 amino acids
              (B) TYPE: amino acid
49
50
              (C) STRANDEDNESS: single
51
              (D) TOPOLOGY: linear
52
53
            (vii) IMMEDIATE SOURCE:
               (A) LIBRARY: Consensus
54
55
               (B) CLONE: Consensus
56
57
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
58
     Met Thr Cys Cys Leu Pro Ala Leu Arg Phe Ile Ala Thr Pro Arg Leu
59
60
     Ser Ala Met Pro His Ile Asp Asn Asp Val Lys Leu Asp Phe Lys Asp
61
62
                                      25
     Val Leu Leu Arg Pro Lys Arg Ser Thr Leu Lys Ser Arg Ser Glu Val
63
64
                                  40
     Asp Leu Thr Arg Ser Phe Ser Phe Arg Asn Ser Lys Gln Thr Tyr Ser
65
66
                              55
     Gly Val Pro Ile Ile Ala Ala Asn Met Asp Thr Val Gly Thr Phe Glu
67
68
                                               75
                          70
69
     Met Ala Lys Val Leu Cys Lys Phe Ser Leu Phe Thr Ala Val His Lys
70
                                          90
     His Tyr Ser Leu Val Gln Trp Gln Glu Phe Ala Gly Gln Asn Pro Asp
71
72
                 100
                                      105
     Cys Leu Glu His Leu Ala Ala Ser Ser Gly Thr Gly Ser Ser Asp Phe
73
74
                                  120
     Glu Gln Leu Glu Gln Ile Leu Glu Ala Ile Pro Gln Val Lys Tyr Ile
75
76
                              135
                                                   140
77
     Cys Leu Asp Val Ala Asn Gly Tyr Ser Glu His Phe Val Glu Phe Val
78
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     Lys Asp Val Arg Lys Arg Phe Pro Gln His Thr Ile Met Ala Gly Asn
79
80
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                                          170
     Val Val Thr Gly Glu Met Val Glu Glu Leu Ile Leu Ser Gly Ala Asp
81
82
                  180
                                      185
     Ile Ile Lys Val Gly Ile Gly Pro Gly Ser Val Cys Thr Thr Arg Lys
83
                                  200
84
             195
     Lys Thr Gly Val Gly Tyr Pro Gln Leu Ser Ala Val Met Glu Cys Ala
85
86
                              215
     Asp Ala Ala His Gly Leu Lys Gly His Ile Ile Ser Asp Gly Gly Cys
87
88
89
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90
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                                          250
     Val Met Leu Gly Gly Met Leu Ala Gly His Ser Glu Ser Gly Gly Glu
91
92
                                      265
93
     Leu Ile Glu Arg Asp Gly Lys Lys Tyr Lys Leu Phe Tyr Gly Met Ser
94
                                  280
95
     Ser Glu Met Ala Met Lys Lys Tyr Ala Gly Gly Val Ala Glu Tyr Arg
96
                              295
                                                   300
97
     Ala Ser Glu Gly Lys Thr Val Glu Val Pro Phe Lys Gly Asp Val Glu
98
                         310
                                              315
     His Thr Ile Arg Asp Ile Leu Gly Gly Ile Arg Ser Thr Cys Thr Tyr
99
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150

151 152

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1843

INPUT SET: S3103.raw 330 325 100 335 Val Gly Ala Ala Lys Leu Lys Glu Leu Ser Arg Arg Thr Thr Phe Ile 101 102 345 103 Arg Val Thr Gln Gln Val Asn Pro Ile Phe Ser Glu Ala Cys 104 360 105 (2) INFORMATION FOR SEQ ID NO:2: 106 107 (i) SEQUENCE CHARACTERISTICS: 108 (A) LENGTH: 1843 base pairs 109 110 (B) TYPE: nucleic acid 111 (C) STRANDEDNESS: single (D) TOPOLOGY: linear 112 113 (vii) IMMEDIATE SOURCE: 114 (A) LIBRARY: Consensus 115 (B) CLONE: Consensus 116 117 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: 118 119 120 CTAAATCAGC CTCTTGCCCC ATTGCTCTTT GCAGGGGTAG AAGAAGGAAG TGTAGCGGGG TAAGGAATGC ACCGTCAGGG TCTCTCACAA CCCTTTCCCA GCTCTCCTCC CCAACAAACA 121 122 GTACCTGGGA TGGAGCCCTA GGGTAATCGC AGCCACGGGA TGGGTCGAGG TGACAGGCTT CAGGGACCAC ACTTCGGCCT TTGCCCGACC TTCCACAACT TAAGCGAAGA GAGGCCACCA 123 GCCGTAACAG GGCGTTAAAG CCCAGGGGAA GATTGGTCCT TATGACTTGC TGCCTTCCAG 124 CCCTCAGATT CATCGCTACC CCGAGGCTAA GCGCCATGCC TCATATTGAC AACGATGTGA 125 126 AACTGGACTT CAAGGATGTC CTTTTGAGGC CCAAACGCAG TACCCTTAAG TCTCGAAGTG AGGTGGATCT CACAAGATCC TTTTCATTTC GGAACTCAAA GCAGACATAC TCTGGGGTTC 127 128 CCATCATTGC TGCCAATATG GATACTGTGG GCACCTTTGA GATGGCCAAG GTTCTCTGTA AGTTCTCTCT CTTCACTGCT GTCCATAAGC ACTATAGCCT CGTTCAGTGG CAAGAGTTTG 129 CTGGCCAGAA TCCTGACTGT CTTGAGCATC TGGCTGCCAG CTCAGGCACA GGCTCTTCTG 130 ACTTTGAGCA GCTGGAACAG ATCCTGGAAG CTATTCCCCA GGTGAAGTAT ATATGCCTGG 131 ATGTGGCAAA TGGCTACTCT GAACACTTTG TTGAATTTGT AAAAGATGTA CGGAAGCGCT 132 TCCCCCAGCA CACCATCATG GCAGGGAATG TGGTAACAGG AGAGATGGTA GAAGAGCTCA 133 TCCTTTCTGG GGCTGACATC ATCAAAGTGG GAATTGGGCC AGGCTCTGTG TGTACTACTC 134 GGAAGAAAC TGGAGTGGGG TATCCACAGC TCAGCGCAGT GATGGAGTGT GCAGATGCTG 135 CTCATGGCCT CAAAGGCCAC ATCATTTCAG ATGGAGGTTG CAGCTGTCCT GGGGATGTGG 1020 136 CCAAGGCTTT TGGGGCAGGA GCTGACTTCG TGATGCTGGG TGGCATGCTG GCTGGGCACA 1080 137 GTGAGTCAGG TGGTGAGCTC ATCGAGAGGG ATGGCAAGAA GTACAAGCTC TTCTATGGAA 138 139 TGAGTTCTGA AATGGCCATG AAGAAGTATG CTGGGGGCGT GGCTGAGTAC AGAGCCTCAG 140 AGGGAAAGAC AGTGGAAGTT CCTTTTAAAG GAGATGTGGA ACATACCATC CGAGACATCC TAGGAGGGAT CCGCTCTACG TGTACCTATG TGGGAGCAGC TAAGCTCAAA GAGTTGAGCA 141 GGAGAACTAC CTTCATCCGA GTCACCCAGC AGGTGAATCC AATCTTCAGT GAGGCGTGCT 142 AGACCTGAGC AGTTCTACCC TCCCAAGGCA CCAGTACTCT ACCATGGGGC ATCCCAAGTG 143 GGGTCCTCAC CCATCCCAGC TACTGCAGCT CTGTATTACT TTGTCATTTC CTGTTGTCTC 144 ACTCCTGAGG GCTCCTGCAG TAACTCTGTA CTTCTCTATC TGCACACA AAATGCCCAA 1560 145 GGCACTCACT GGGGAGGAAG CAAGGAAGCA AACAGTCTGA GGAAATGATG CAAGAAAATC 1620 146 AAATGGGAAT CTGGGGACCC AACACAACAT CCTGAAGATT ATTAAAAGGA AAAGATGCTG 1680 147 ATTGGTACAT AAATCTTTTA CATGGCCTTG GTCTAGAGGA GGCAGGCTTT TAGAATCATG 1740 148 TTTTGTTAAT CCGCTTCACT AAATTGGACC TTCACATATC TAAAAAGCTC TGAAGTGTTT 1800 149

(2) INFORMATION FOR SEQ ID NO:3:

GTATATTTGA AATACCTCAA TAAAGAGAGA GCTCATTGAC TGT

RAW SEQUENCE LISTING PATENT APPLICATION US/09/007,306

DATE: 06/09/98 TIME: 08:38:57

INPUT SET: S3103.raw

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153
             (i) SEQUENCE CHARACTERISTICS:
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155
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               (B) TYPE: amino acid
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157
               (C) STRANDEDNESS: single
158
               (D) TOPOLOGY: linear
159
             (vii) IMMEDIATE SOURCE:
160
161
                (A) LIBRARY: GenBank
                (B) CLONE: 473772
162
163
164
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
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169
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      Arg Gln Phe Thr Phe Lys His Ser Gly Gln Ser Trp Ser Gly Val Pro
170
                                   40
171
      Ile Ile Ala Ala Asn Met Asp Thr Val Gly Thr Phe Ser Met Ala Ser
172
173
      Ala Leu Ala Ser Phe Asp Ile Leu Thr Ala Val His Lys His Tyr Ser
174
175
                           70
                                                75
176
      Val Glu Glu Trp Gln Ala Phe Ile Asn Asn Ser Ser Ala Asp Val Leu
177
                       85
                                           90
      Lys His Val Met Val Ser Thr Gly Thr Ser Asp Ala Asp Phe Glu Lys
178
179
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                   100
      Thr Lys Gln Ile Leu Asp Leu Asn Pro Ala Leu Asn Phe Val Cys Ile
180
181
                                   120
      Asp Val Ala Asn Gly Tyr Ser Glu His Phe Val Gln Phe Val Ala Lys
182
183
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184
      Ala Arg Glu Ala Trp Pro Thr Lys Thr Ile Cys Ala Gly Asn Val Val
185
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      Thr Gly Glu Met Cys Glu Glu Leu Ile Leu Ser Gly Ala Asp Ile Val
186
187
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                                           170
      Lys Val Gly Ile Gly Pro Gly Ser Val Cys Thr Thr Arg Val Lys Thr
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189
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190
191
                                   200
192
      Ala His Gly Leu Gly Gly Met Ile Val Ser Asp Gly Gly Cys Thr Thr
193
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194
      Pro Gly Asp Val Ala Lys Ala Phe Ala Arg Ala Asp Phe Val Met Leu
195
                           230
                                                235
196
      Gly Gly Met Leu Ala Gly His Glu Glu Ser Gly Gly Arg Ile Val Glu
197
                                            250
                       245
198
      Glu Asn Gly Glu Lys Phe Met Leu Phe Tyr Gly Met Ser Ser Glu Ser
199
                                        265
      Ala Met Lys Arg His Val Gly Gly Val Ala Glu Tyr Arg Ala Ala Glu
200
201
                                   280
      Gly Lys Thr Val Lys Leu Pro Leu Arg Gly Pro Val Glu Asn Thr Ala
202
203
                               295
      Arg Asp Ile Leu Gly Gly Leu Arg Ser Ala Cys Thr Tyr Val Gly Ala
204
205
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INPUT SET: S3103.raw

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Ser Arg Leu Lys Glu Leu Thr Lys Arg Thr Thr Phe Ile Arg Val Gln
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       Glu Gln Glu Asn Arg Ile Phe Asn Asn Leu
209
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211
                (2) INFORMATION FOR SEQ ID NO:4:
212
213
             (i) SEQUENCE CHARACTERISTICS:
214
               (A) LENGTH: 345 amino acids
215
               (B) TYPE: amino acid
216
               (C) STRANDEDNESS: single
217
               (D) TOPOLOGY: linear
218
219
             (vii) IMMEDIATE SOURCE:
220
                (A) LIBRARY: GenBank
                (B) CLONE: 544455
221
222
223
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
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226
227
      Leu Arg Pro Lys Arg Ser Ser Leu Lys Ser Arg Ala Glu Val Asp Leu
228
                   20
      Glu Arg Thr Phe Thr Phe Arg Asn Ser Lys Gln Thr Tyr Ser Gly Ile
229
230
                                   40
231
      Pro Ile Ile Val Ala Asn Met Asp Thr Val Gly Thr Phe Glu Met Ala
232
                               55
      Ala Val Met Ser Gln His Ser Met Phe Thr Ala Ile His Lys His Tyr
233
234
                           70
                                                75
      Ser Leu Asp Asp Trp Lys Leu Phe Ala Thr Asn His Pro Glu Cys Leu
235
236
                       85
                                            90
237
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238
                                        105
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239
240
                                   120
      Asp Val Ala Asn Gly Tyr Ser Glu His Phe Val Glu Phe Val Lys Leu
241
242
                               135
                                                    140
243
      Val Arg Ala Lys Phe Pro Glu His Thr Ile Met Ala Gly Asn Val Val
244
                           150
                                                155
245
      Thr Gly Glu Met Val Glu Glu Leu Ile Leu Ser Gly Ala Asp Ile Ile
246
                                            170
247
      Lys Val Gly Val Gly Pro Gly Ser . Val Cys Thr Thr Arg Thr Lys Thr
248
                                        185
249
      Gly Val Gly Tyr Pro Gln Leu Ser Ala Val Ile Glu Cys Ala Asp Ser
250
              195
                                    200
251
      Ala His Gly Leu Lys Gly His Ile Ile Ser Asp Gly Gly Cys Thr Cys
252
                               215
                                                    220
253
      Pro Gly Asp Val Ala Lys Ala Phe Gly Ala Gly Ala Asp Phe Val Met
254
                           230
                                                235
      Leu Gly Gly Met Phe Ser Gly His Thr Glu Cys Ala Gly Glu Val Phe
255
256
                       245
                                           250
      Glu Arg Asn Gly Arg Lys Leu Lys Leu Phe Tyr Gly Met Ser Ser Asp
257
258
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SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/007,306

DATE: 06/09/98 TIME: 08:39:01

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Line

Error

Original Text